PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY			
To:	PCT		
STEVEN A. MAY 1303 BAST ALGONQUIN ROAD	NOTIFICATION OF TRANSMITTAL OF		
SCHAUMBURG, IL 60196	THE INTERNATIONAL SEARCH REPORT AND		
A STEPPE	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
IF NO RESPINST IS NEEDED.	(PCT Rule 44.1)		
PLEASE INITIAL CAROL	Date of mailing O D D C 2004		
KE JUNIA 10 PARTIE	(day/month/year) 2.9 DEC 2004		
Applicant's or affent's file reformed	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date (day/month/year) 24 June 2004 (24.06.2004)		
PCT/US04/20439	(ady/monut) 24 July 2004		
Applicant MOTOROLA, INC., A CORPORATION OF THE STATE OF	DELAWARE		
The applicant is hereby notified that the international s Authority have been established and are transmitted be	earch report and the written opinion of the International Searching rewith.		
Filing of amendments and statement under Article	19: claims of the international application (see Rule 46):		
When? The time limit for filing such amendments search report.	is normally two months from the date of transmittal of the international		
and and and the International Purrett of W	IPO, 34 chemin des Colombettes		
1211 Geneva 20, Switzerman, Pacsining	NO.: 441 22 140 2400		
For more detailed instructions, see the notes on t	ne accompanying succi.		
Amin's 17/24s) to that effect and the written opinion	search report will be established and that the declaration under of the International Searching Authority are transmitted herewith.		
With record to the pretest against payment of (an)	additional fee(s) under Rule 40.2, the applicant is notified that:		
	s been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices.		
applicant's request to forward the texts of both	se applicant will be notified as soon as a decision is made.		
			
4. Reminders Shortly after the expiration of 18 months from the priority from the p	date, the international application will be published by the International action, a notice of withdrawal of the international application, or of the lad in Rules 90bts. 1 and 90bts. 3, respectively, before the completion of		
priority claim, must reach the international bureau as provide	the th reason have a second se		
the technical preparations for international patterns of an informal basis	on the written opinion of the International Searching Authority to the		
International Bureau. The International Bureau will sent a vopy of these comments would also be made available to the public but not			
before the expiration of 30 morans from the priority date.			
Within 19 months from the priority date, but only in respect of some designated criticals, a small 30 months from the priority examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date, perform the prescribed			
date (in some Offices even later); officers, the applicated Offices.			
acts for entry into the national passe before those designated of these. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19			
months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's			
Welling I Mating Chapters and the WIPO thickness and			
Name and mailing address of the ISA/ US	Authorized official		
Mail Stop PCT, Ann: ISA/US	Edan Orgad		
Commissioner for Patents P. O. Box 1450 Alexandria Virolina 22313-1450 Telephone No. 703-305-4223			
Alexandria, Virginia 22313-1450 Telephone No. 703-303-4223			
Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet		

PATENT COOPERATION TREATY

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant CB10654	's or agent's file reference R	FOR FURTHER ACTION	Report (Pe	cation of Transmittal of International Search form PCT/ISA/220) as well as, where applicable, form.	
Internatio PCT/US0	nal application No. 4/20439	International filing date (day/month/year) 24 June 2004 (24.06.2004) [Earliest) Priority Date (day/month/year) 25 June 2003 (26.06.2003)			
Applicant MOTOR	_	OF THE STATE OF DELAWARE		·	
applicant	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.				
1. Basis a.					
b	the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international apart was carried out on the basis of the sequence listing:				
	contained in the internations	l application in written form.		•	
<u> </u>	filed together with the intern	national application in computer reac	lable form.	•	
<u> </u>	furnished subsequently to this Authority in written form.				
<u> </u>	furnished subsequently to th	is Authority in computer readable for	om.		
<u> </u>	the statement that the subsection as international application as in		isting does	not go beyond the disclosure in the	
	the statement that the information furnished.	nation recorded in computer readable	e form is i	dentical to the written sequence listing has	
2.	Certain claims were found	unsearchable (See Box I).			
3.	· · · · · · · · · · · · · · · · · · ·				
4. Wit	h regard to the title,	-ter-d buy day and tank			
	the text is approved as submitted by the applicant.				
the text has been established by this Authority to read as follows:					
5. Wit	h regard to the abstract,				
the text is approved as submitted by the applicant.					
	the .ext has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority				
6. The figure of the drawings to be published with the abstract is Figure No. 2					
	as suggested by the applicar		•	None of the figures	
	because the applicant failed	to suggest a figure.	•		
	because this figure better characterizes the invention.				
7 TOWN MAN (F A. F.), 1000					

	INTERNATIONAL SEARCH REPORT	1	International applica	non No.
	INTERNATIONAL SEARCH ALL ONE	PCT/US04/20439		
A. CLASSIFICATION OF SUBJECT MATTER IPC(7): H04B 7/00; H04Q 7/00 US CL: 455/436, 442, 522 According to International Patent Classification (IPC) or to both national classification and IPC TELL DS SEARCHED				
U.S. : 455	Minimum documentation searched (classification system followed by classification symbols) U.S.: 455/436, 442, 522			
	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
		a base and, w	nere praecionos,	
C. DOCL	MENTS CONSIDERED TO BE RELEVANT			Relevant to claim No.
Category *		ite, of the rek	vant passages	1, 5 and 9
х 	US006185199 B1 (ZEHAVI) 06 February 2001, see detailed written opinion 237 report.			2-4, 6-8 and 10
X.	US006097972 A (SAAINTS et al) 01 August 2000, see entire document. 1. 5 and 9 2-4, 6-8 and 10 1. 5 and 9			
Ā				
Y	US 5,640,414 A (BLACKBNEY, II et al) 17 June 1997, see col. 3, line 21- col. 4, line 24 1, 5 and 9 US 20020126739 A1 (TIBDEMANN, JR. et al) 12 September 2002, see paragraphs 20-26 1, 5 and 9			1, 5 and 9
Y	US 20020126739 A1 (TIBDEMANN, IR. et al.) 12 September 2002. US 20020093918 A1 (KIM et al.) 18 July 2002, see entire document.			1,5 and 9
X,P	COUNTY OF THE PARTY OF THE 2004, see entire document.			1, 5 and 9
*				
Furthe	r documents are listed in the continuation of Box C.		ent family annex.	rnational filling date or priority
 	Special categories of clad documents:	Acres and	and in conflict with the souls	TOOL OF CIEA IN CITY NAME
perdcub	ns defining the general state of the art which is not considered to be of ar relevance "X"	documen	or theory underlying the inv a of particular relevance, the ed novel or cannot be consid-	
	application or patent published on or after the international filing date on which may throw doubts on priority claim(4) or which is ched to the publication date of another chatten or other special reason (as	documen	document is taken alone in of particular relevance; the ed to involve an inventive sta	
specific	ch en referring to an oral disclosure, use, exhibition or other means	atroivdo	or more other such docume to a person skilled in the art	•
priorit	-p" document published prior to the international filing date but later than the priority date claimed			
	sectual completion of the attention	3 DFC	ZUUJ	111
Name and	mailing address of the EANOS Addi Stop PCT, Adm: ISA/US Commissioner for Patents	thorized offici dan Orgad lephone No	90e July 703-305-4223	to flely
Facsimile	No. (703) 305-3230 ISA/210 (second sheet) (July 1998)			

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY				
To: STEVEN A. MAY 1303 EAST ALGONQUIN ROAD SCHAUMBURG, IL 60196		PCT		
·			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	2 9 DEC 2004	
Applicant's or agent's file reference		FOR FURTHER	ACITON See paragraph 2 below	
CE10654R International application No.	International filing date			
PCT/US04/20439	24 June 2004 (24.05.20)		Priority date (day/month/year) 26 June 2003 (26.06.2003)	
International Patent Classification (IPC)	or both national classifica	tion and IPC	200222000	
IPC(7): H04B 7/00; H04Q 7/00 and U	Cl.: 455/436, 442, 522	T		
Applicant MOTOROLA, INC., A CORPORATIO	N OR THE STATE OF D	Er Aniann		
MOTUROLA, INC., A CORPORATIO	NOF TRESTATE OF D	ELAWARB		
1. This opinion contains indications re-	lating to the following item	16:		
Box No. I Busis of the	Basis of the opinion			
Box No. II Priority	Box No. II Priority			
Box No. III Non-establi	ishment of opinion with re	gard to novelty, inve	ntive step and industrial applicability	
Box No. IV Lack of un	ty of invention			
	Box No. V Reasoned statement under Rule 43 bir. 1(a)(i) with regard to nevelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain doc	suments cited		, in the second	
Box No. VII Certain def	ects in the international ap	plication		
Box No. VIII Certain obs	ervations on the internation	nal application		
2. FURTHER ACTION	·			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bir(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
	Name and mailing address of the ISA/ US Authorized officer:			
Mail Stop PCT, Attn: ISA/US Commissioner for Pasents Edan Orgad			by volue	
P.O. Box 1450 Alexandria, Vizginia 22313-1450 Telephone No. 708-305-4223				
Facsimile No. (703) 303-3230				
Form PCT/ISA/237 (cover sheet) (Jamuar)	2004)	•		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

	INTERNATIONAL SEARCHING AUTHORITY	.PCT/US04/20439		
Box N	o. I Basis of this opinion			
		•		
1. With	regard to the language, this opinion has been established on the basis of siled, unless otherwise indicated under this item.	the international application in the language in which		
	This opinion has been established on the basis of a translation from the original language into the following language and the same and the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).			
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a.	type of material			
	a sequence listing			
	table(s) related to the sequence listing			
ь.	format of material			
	in written format			
	in computer readable form	i		
c.	time of filing/furnishing	·		
	contained in international application as filed.			
	filed together with the international application in computer reads	ble form.		
	furnished subsequently to this Authority for the purposes of search			
3.	In addition, in the case that more than one version or copy of a seque filed or furnished, the required statements that the information in the sul the application as filed or does not go beyond the application as filed, as	because or additional copies is identical to that in		
4. Addit	lonal comments:			
	•			
	•			
		·		
•	•			
lorm PC1	/ISA/237/Box No. D (Jamisty 2004)			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/20439

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Cla ims	2-4. 6-8 and 10	YES
		1. 5 and 9	NO
Inventive step (IS)	Claims	2-4, 6-8 and 10	YES
	Claims	1, 5 and 9	NO
Industrial applicability (IA)) Claims	1-10	YES
		NONE	No

2. Citations and explanations:

Claims 1, 5 and 9 novelty under PCT Article 33(2) as being anticipated by Zehavi (US 6,185,199).

Regarding claim 1, Zehavi teaches a method in a wireless communication system for mitigating powercontrol errors during a soft handoff of a mobile unit, the method comprising: programming a plurality of base stations with a uniform power-control bit pattern to be sent to the mobile unit during a plurality of power-control bit times, before the mobile unit is acquired on a reverse link (col. 3, lines 1-14); and timing transmissions of the uniform power-control bit pattern such that the plurality of base stations, when transmitting, send identical power-control bits during each of the plurality of power-control bit times (col. 12, lines 49-63).

Regarding claim 5 and 9, Zehavi teaches an apparatus for use in a wireless communication system for mitigating powercontrol errors during a soft handoff of a mobile unit, the apparatus for use with a base station of a plurality of base stations attempting to communicate with the mobile unit, the apparatus comprising: a processor for controlling the base station (col. 3, lines 1-14), a memory element coupled to the processor for programming the processor, the memory element comprising a uniform powercontrol bit pattern to be sent by different ones of the plurality of base stations to the mobile unit during a plurality of power-control bit times, before the mobile unit is acquired on a reverse link (col. 12, lines 49-63); and a synchronizer coupled to the processor for cooperating with the processor to time transmissions of the uniform power-control bit pattern such that the plurality of base stations, when transmitting, send identical power-control bits during each of the plurality of power-control bit times (col. 6, line 66, col. 7, line 10).

Claims 2 and 6 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest wherein programming the plurality of base stations with the uniform power-control bit pattern comprises programming a pattern that requires more than a single transmission frame of a forward link from a base station to the mobile unit before the pattern repeats, and wherein timing the transmissions comprises synchronizing the transmissions from each of the plurality of base stations such that the transmissions start at substantially identical times.

Claims 3, 7 and 10 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest wherein programming the plurality of base stations with the uniform power-control bit pattern comprises programming a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and wherein timing the transmissions comprises starting the transmissions at substantially identical points within different ones of the plurality of transmission frames:

Claims 4 and 8 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest wherein the uniform power-control bit pattern is a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base stations start at substantially identical points within different ones of the plurality of transmission frames.

Form PCT/ISA/237 (Box No. V) (January 2004)